

Product Data Sheet

Product Name: Lipid 14
Cat. No.: GC90932

Chemical Properties

Cas. No. 2430034-05-0

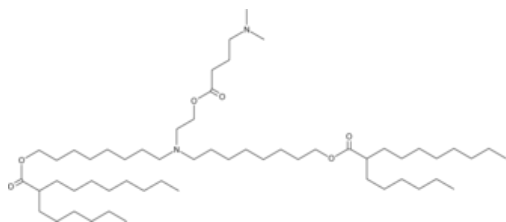
Formula $C_{56}H_{110}N_2O_6$ M.Wt 907.5

Solubility Ethanol: Soluble, Methyl Acetate: 25 mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Lipid 14 is an ionizable cationic amino lipid that has been used in the formation of lipid nanoparticles (LNPs).¹ LNPs containing lipid 14 and encapsulating mRNA encoding severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spike glycoprotein receptor-binding domain (RBD), also known as the surface glycoprotein RBD, increase anti-RBD antibody levels in mice, as well as increase the number of isolated mouse splenocytes secreting IFN- γ and IL-2, but not IL-4 or IL-10, when incubated with the SARS-CoV-2 spike glycoprotein. LNPs containing lipid 14 and encapsulating mRNA encoding the bacterial Caf1 (F1) capsule antigen from *Y. pestis*, the bacteria that causes bubonic plague, induces anti-F1 cellular and humoral responses and protects against lethal *Y. pestis* infection in mice.²

Caution: Product has not been fully validated for medical applications. For research use only.

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